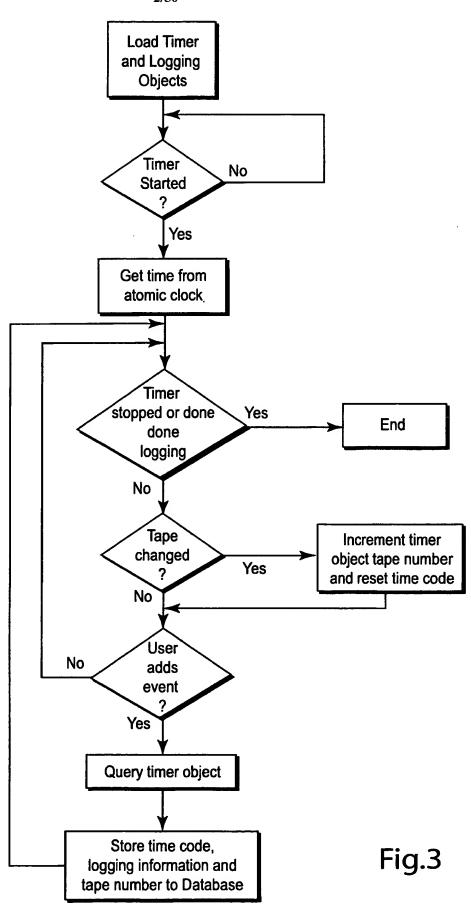
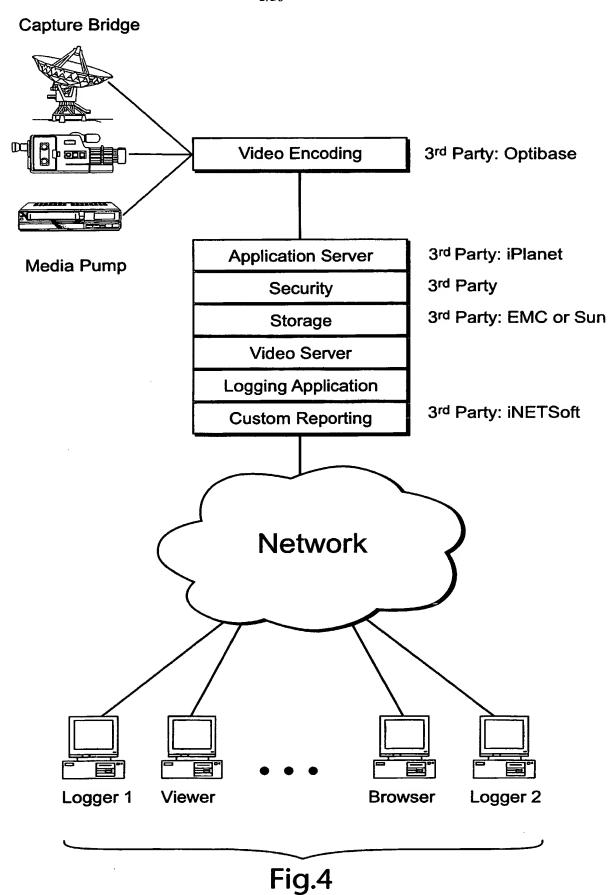


Fig.1

TEAM 1	TEAM 2	EVENT
Player 1		
	Player A	2-point
Player 2		
Player 3	Player B	3-point
Flayer 3	Player C	Foul
Player 4	,	
5	Player D	Free Throw
Player 5	Player E	
	i layer L	
<u>_</u>	<del></del>	

Fig.2





**SUBSTITUTE SHEET (RULE 26)** 

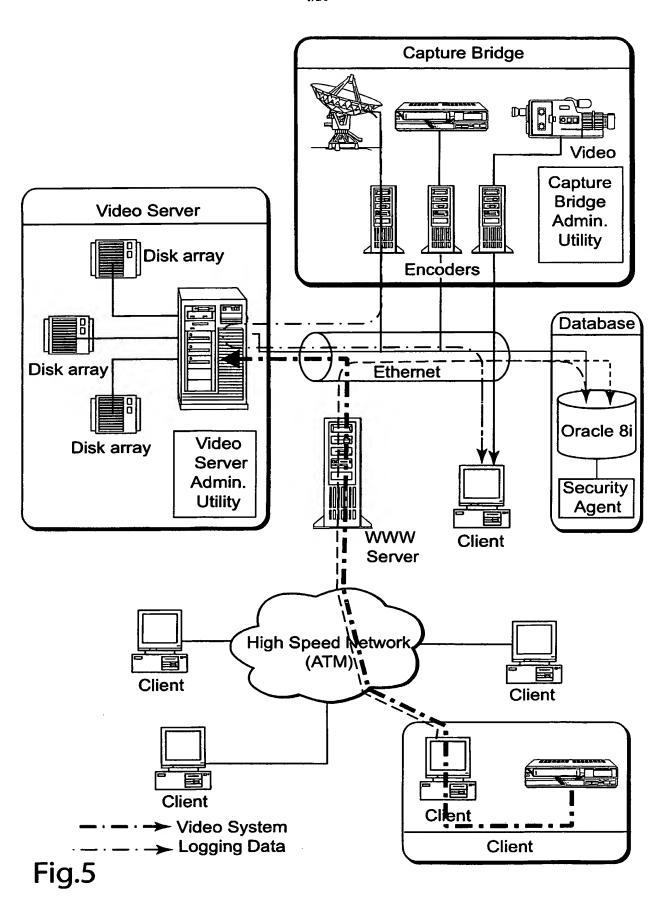
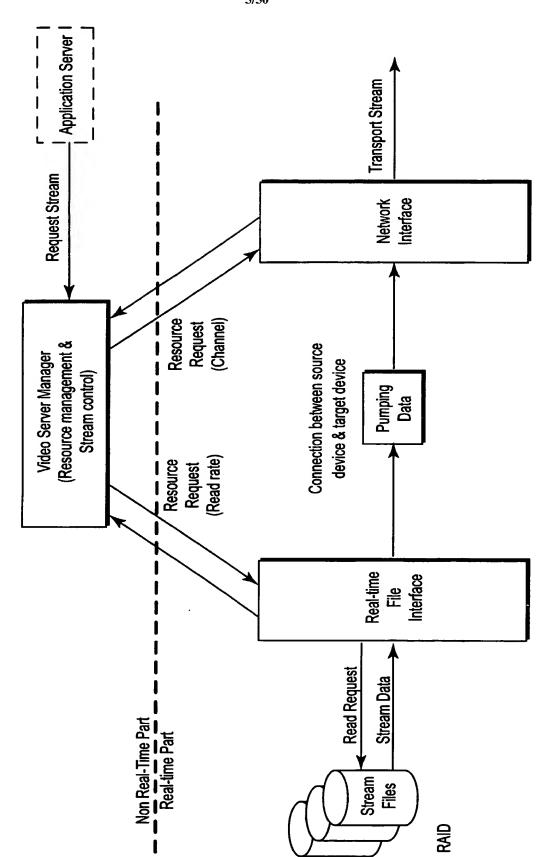
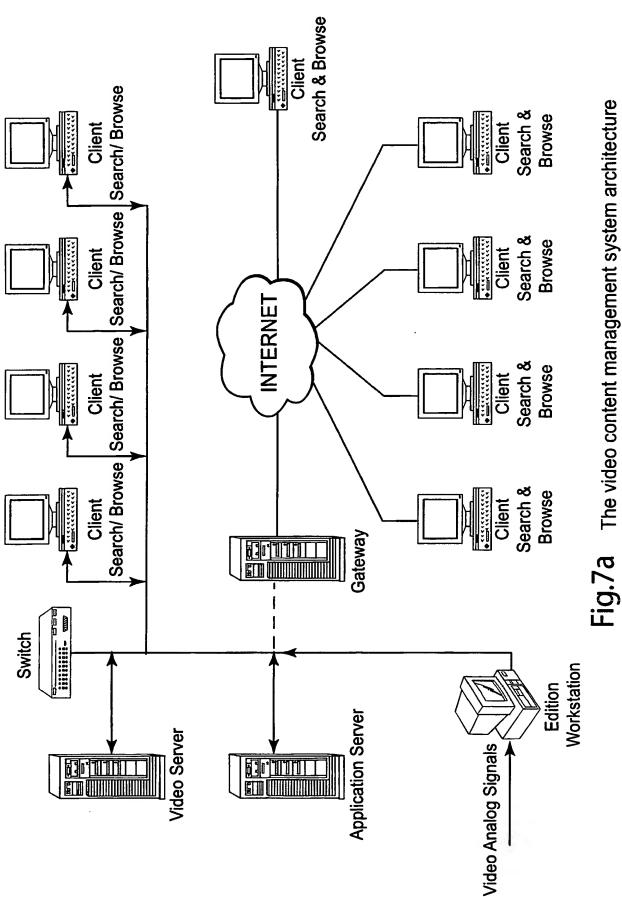
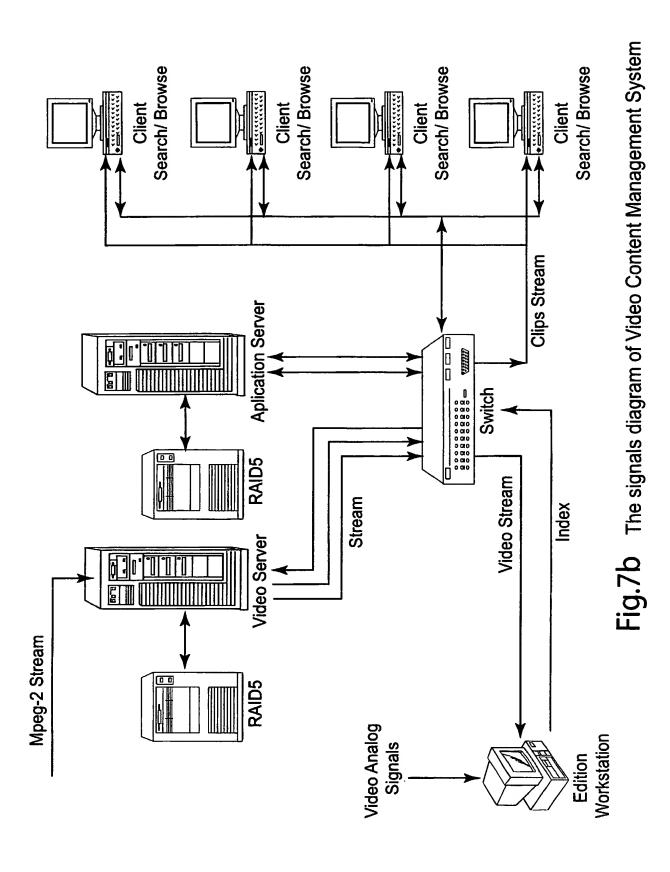


Fig.6 The video Server Architecture



**SUBSTITUTE SHEET (RULE 26)** 





SUBSTITUTE SHEET (RULE 26)

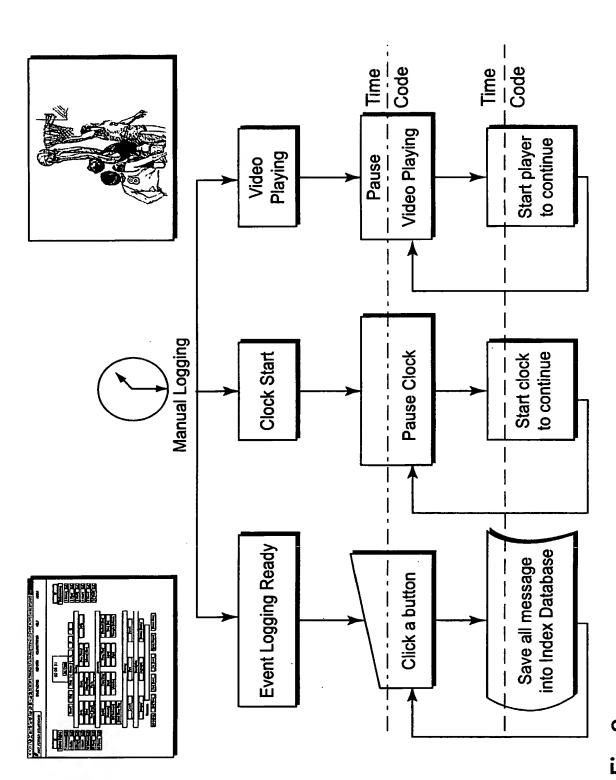


Fig.8a Manual Logger Flowchart



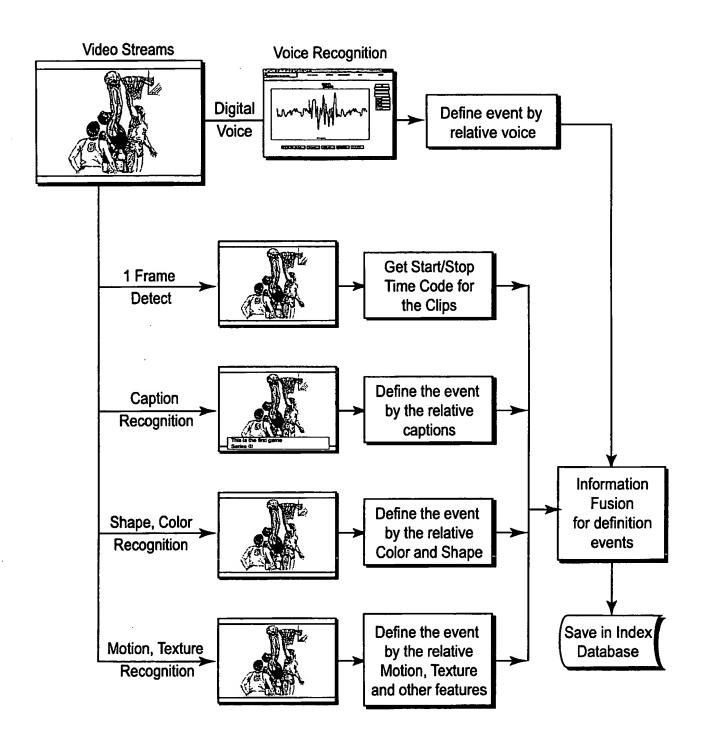
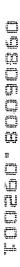


Fig.8b Automatic Logger Flowchart



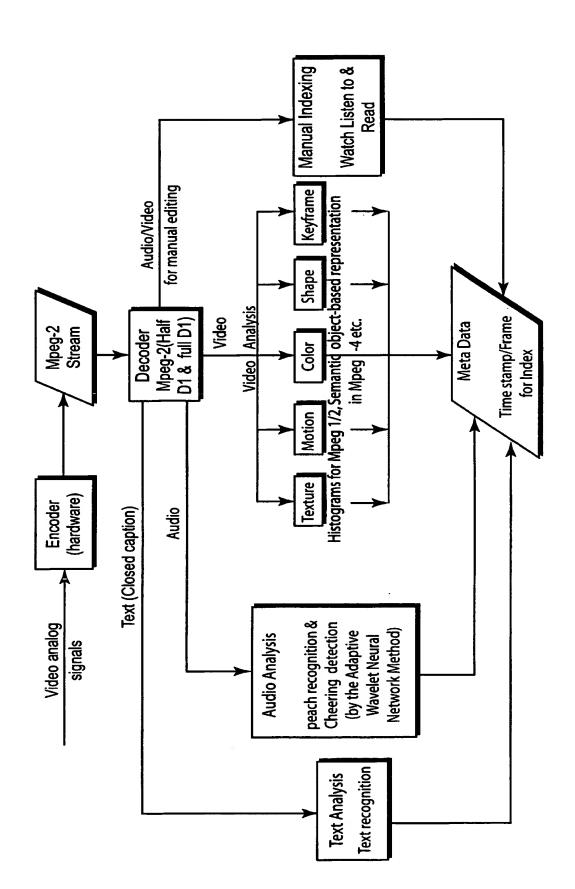


Fig.8C Video Indexing in the Edition Workstation (Manual Logger)

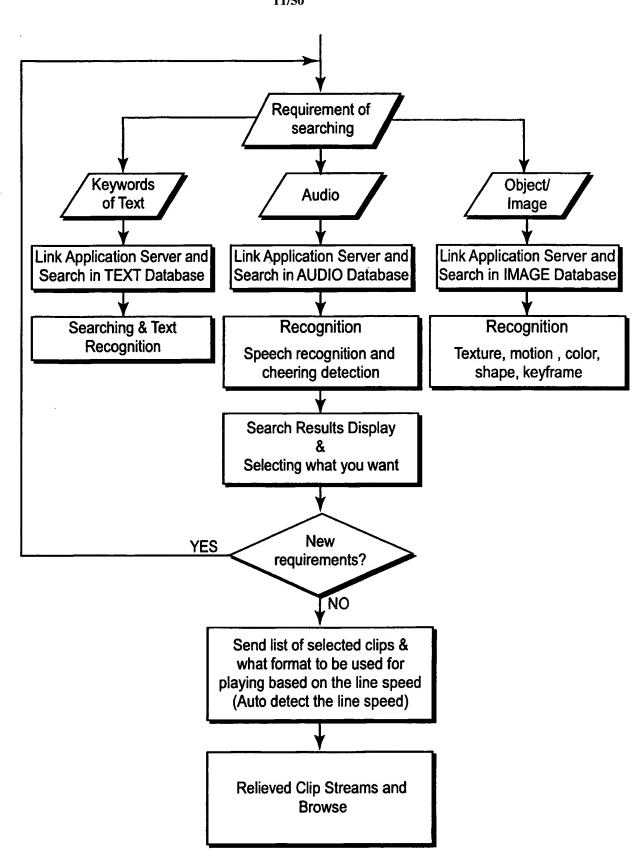
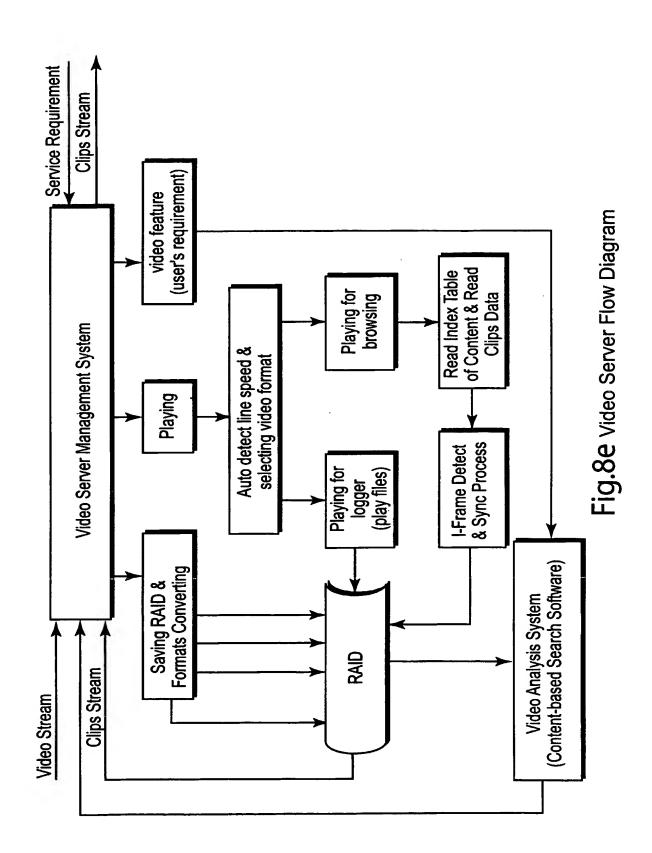


Fig.8d Search and Browse in the Clients





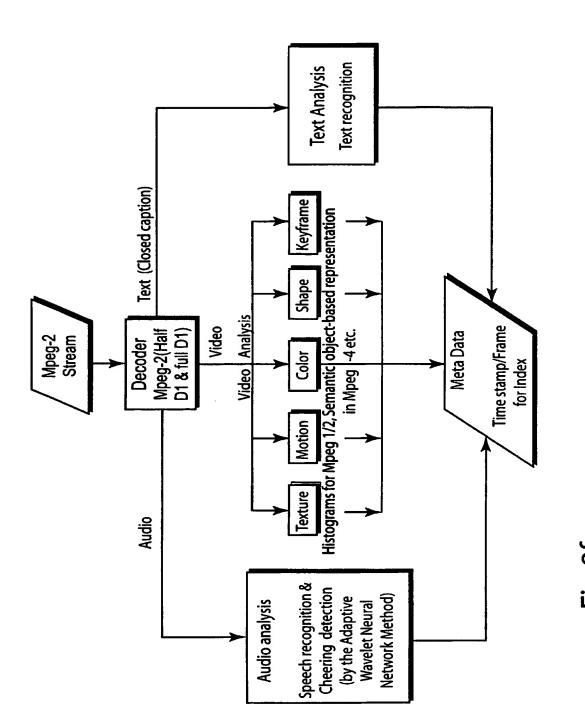


Fig.8f Video Analysis Subsystem Flow Diagram

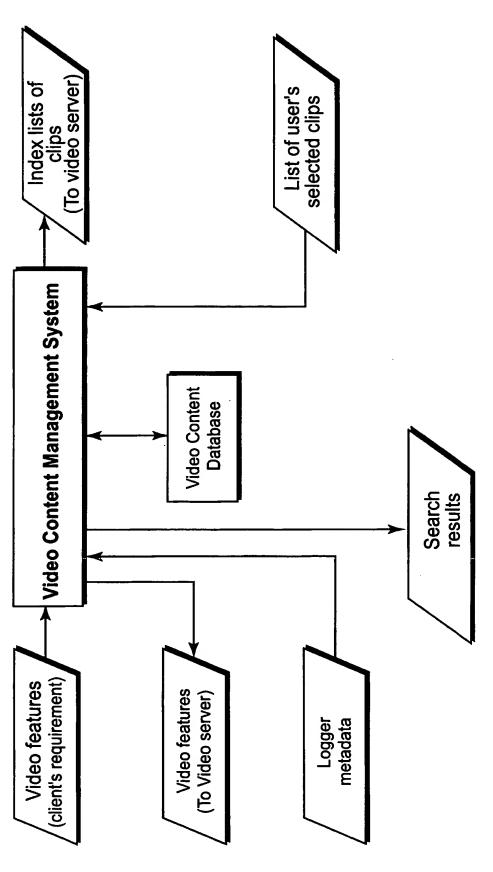


Fig.89 Application Server Flow Diagram

Others

Texture

Motion

Color

Shape

Caption

Voice

Camera

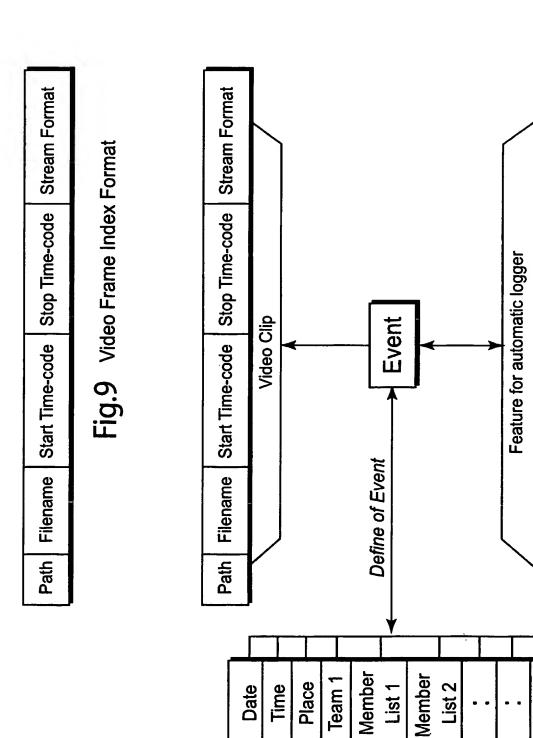
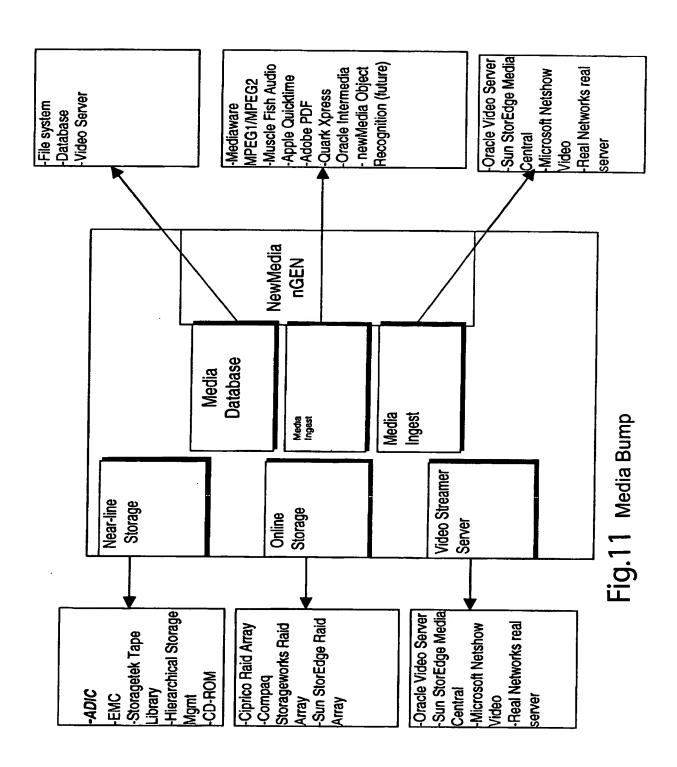
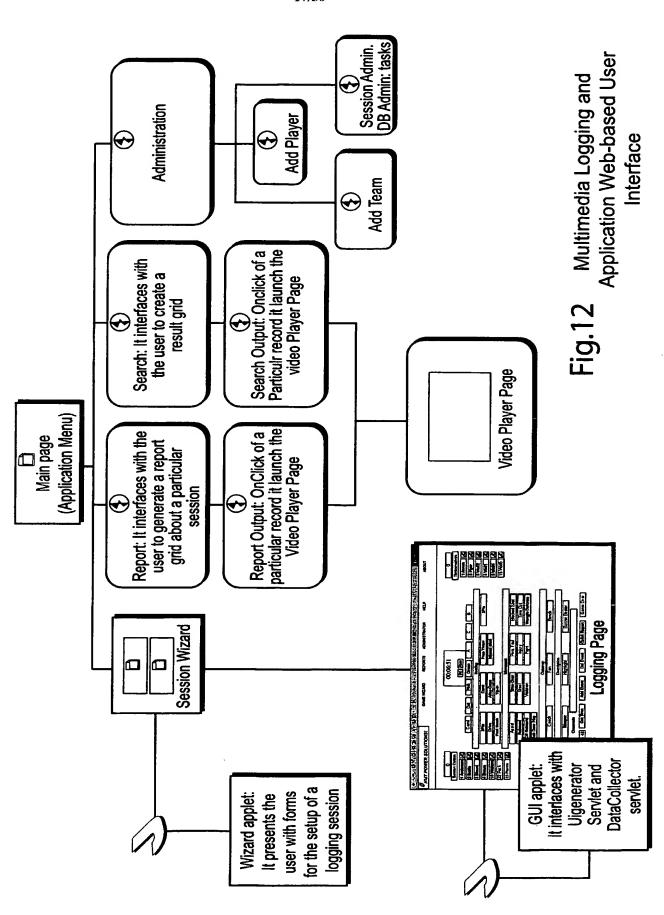


Fig. 10 The Relationship between the Video Index, Features and Event Database.





**SUBSTITUTE SHEET (RULE 26)** 



## **Database Table**

GroupName	NumberOfElems	Xpos	Ypos	bckground
NMT	15	300px	250px	Red
ComNet	2	500px	250px	

Fig.13

CustID	Cust. Name	ElmType	Dblclick	Click	GroupNam e	Xpos	Ypos
1	Charles Smith	Button	List	Select	NMT	0	0
2	Alphonso Hamilton	Button	List	Select	NMT	1	0
3	Rafael Cortina	Button	List	Select	NMT	0	1
4	Rovi	Button	List	ExSelec t	ComNet	0	0
5	Cliff	Button	List	ExSelec t	ComNet	1	0

Fig.14

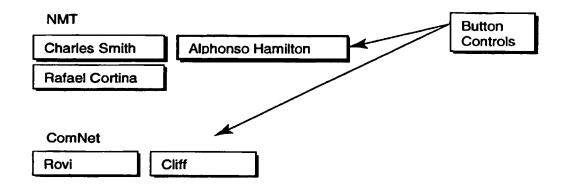
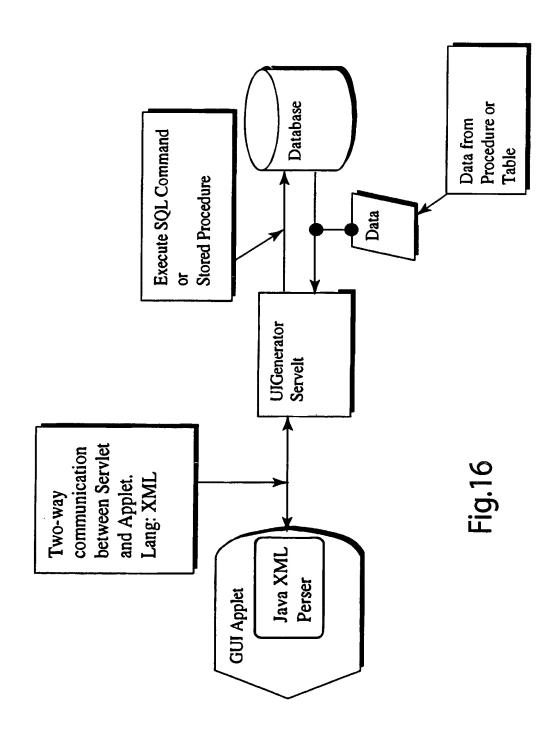
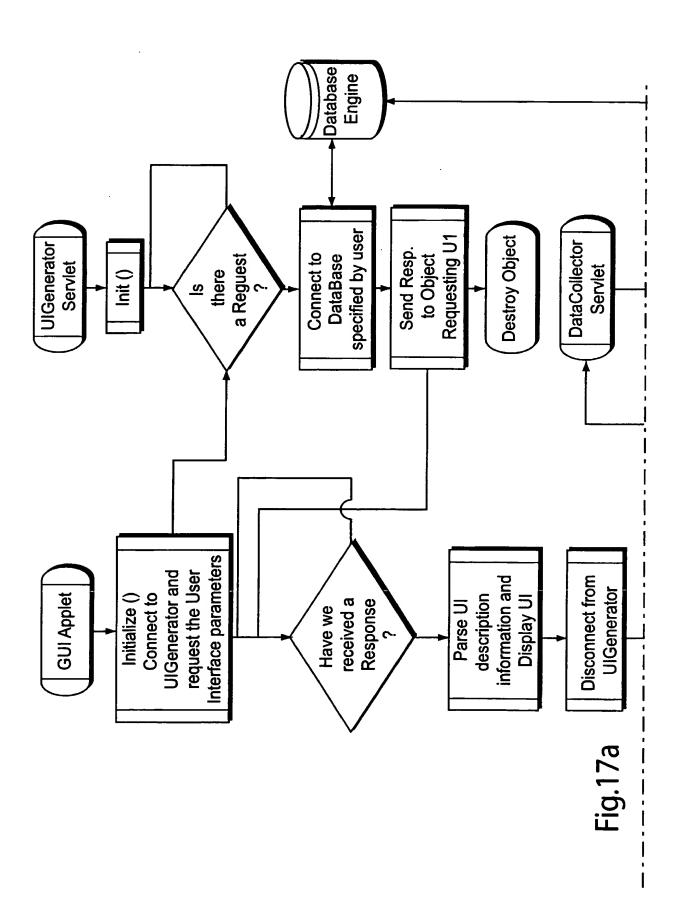
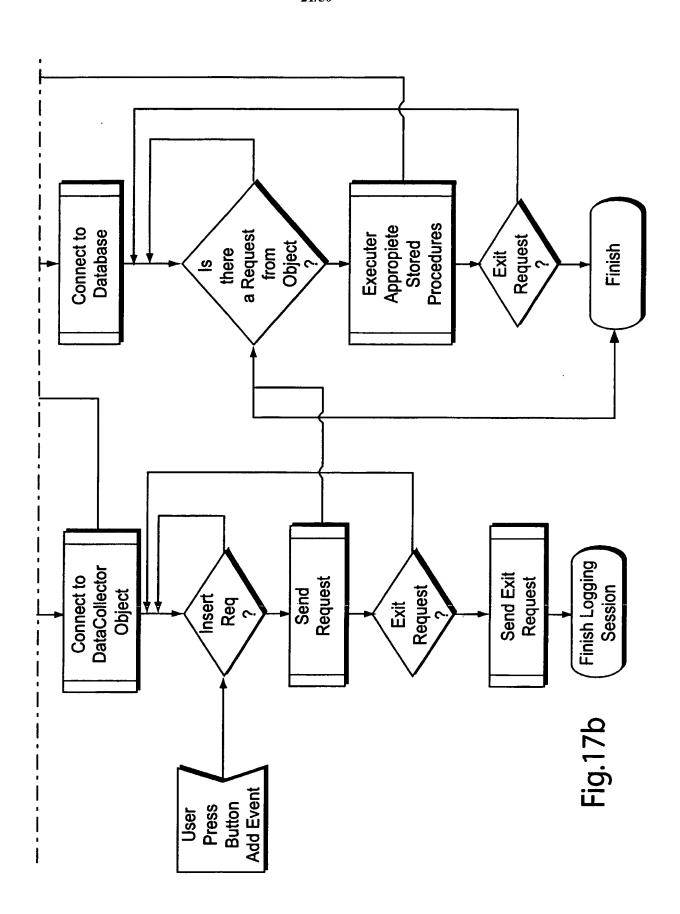


Fig.15





ij

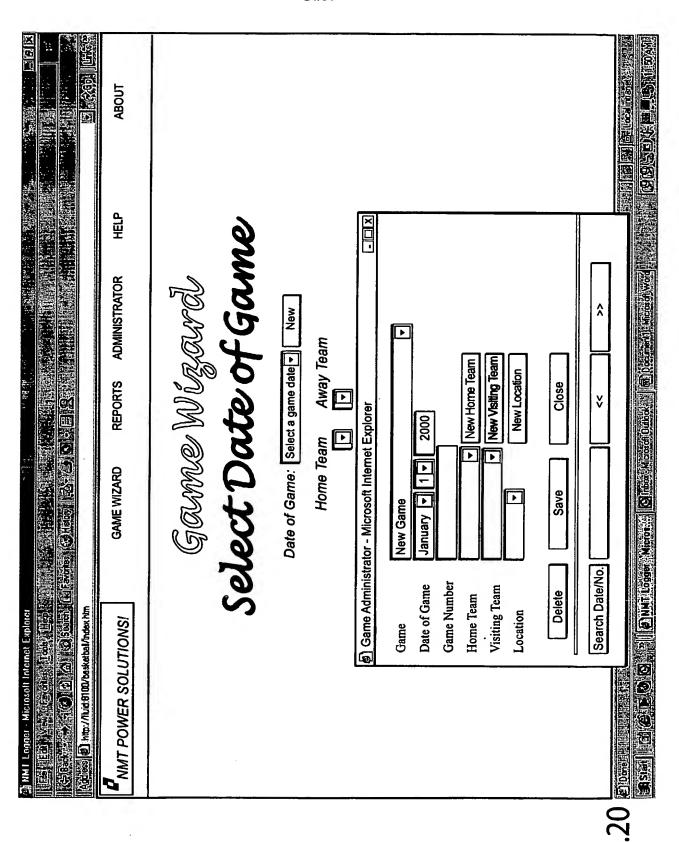


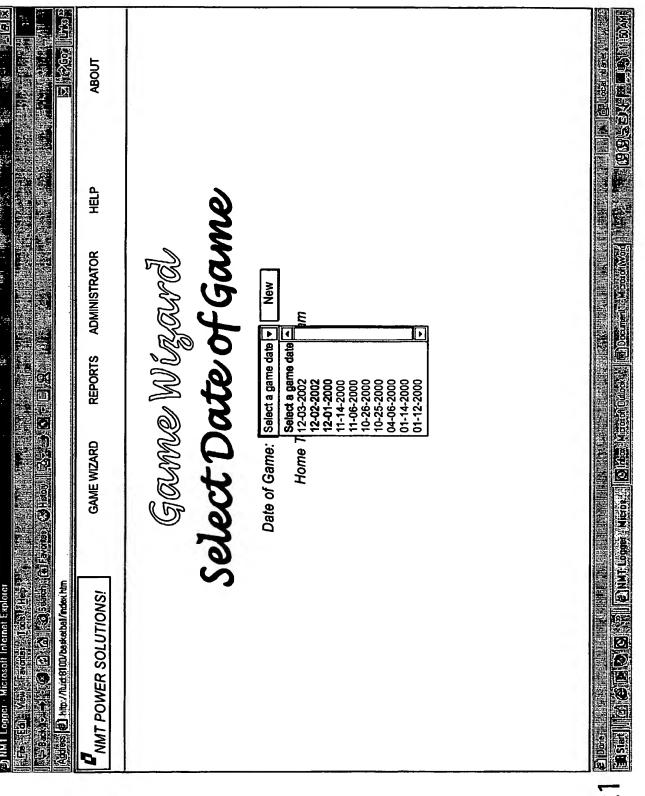
Baskethern The Cook of the Coo				
--	--	--	--	--

Fig. 18

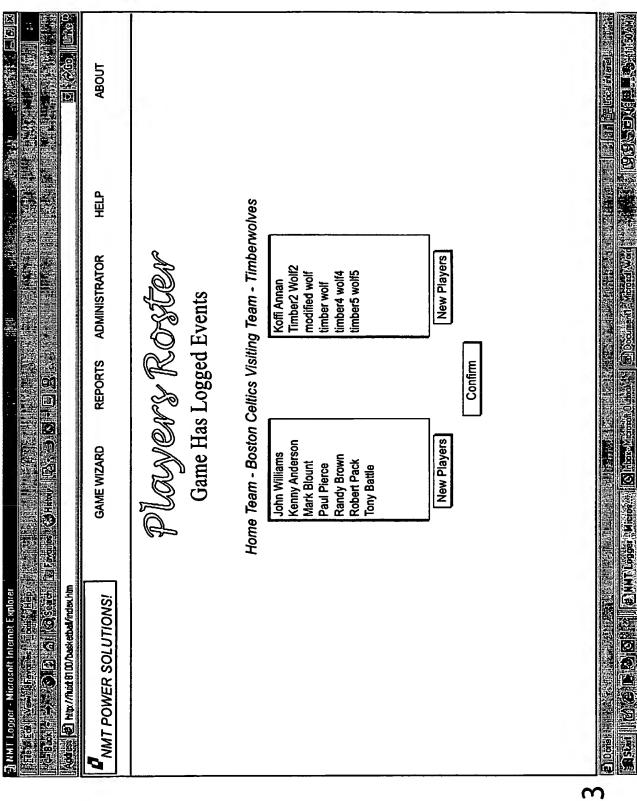
block  (1) (2) (2) (2) (3) (4) (5) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7		GAME WIZARD REPORTS AD	Garme Wigard	Select Date of Game	Date of Game: Select a game date New Home Team Away Team	Next >>		
	88E (8)	WINT POWER SOLUTIONS!		Sel	Õ			

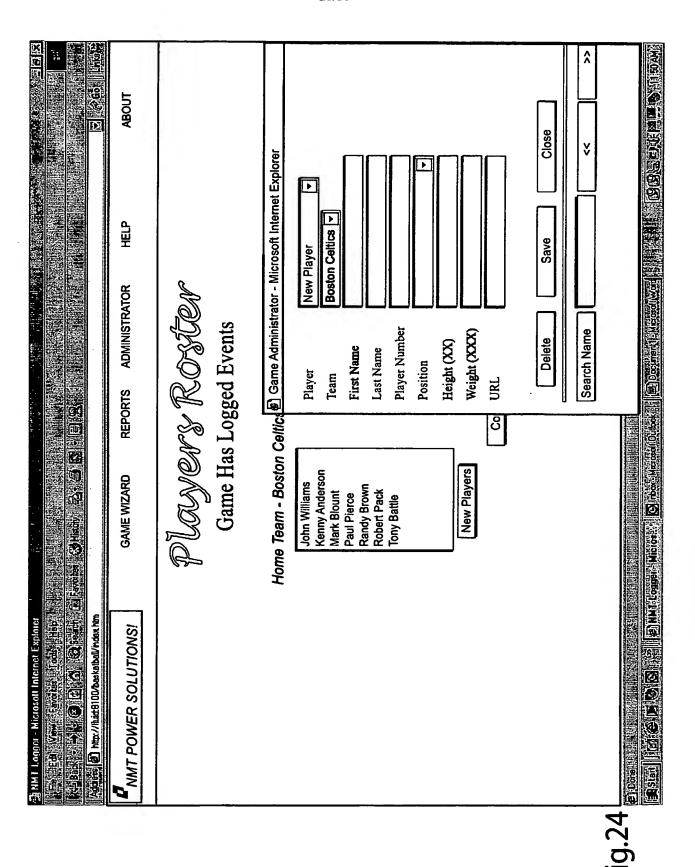
; ,



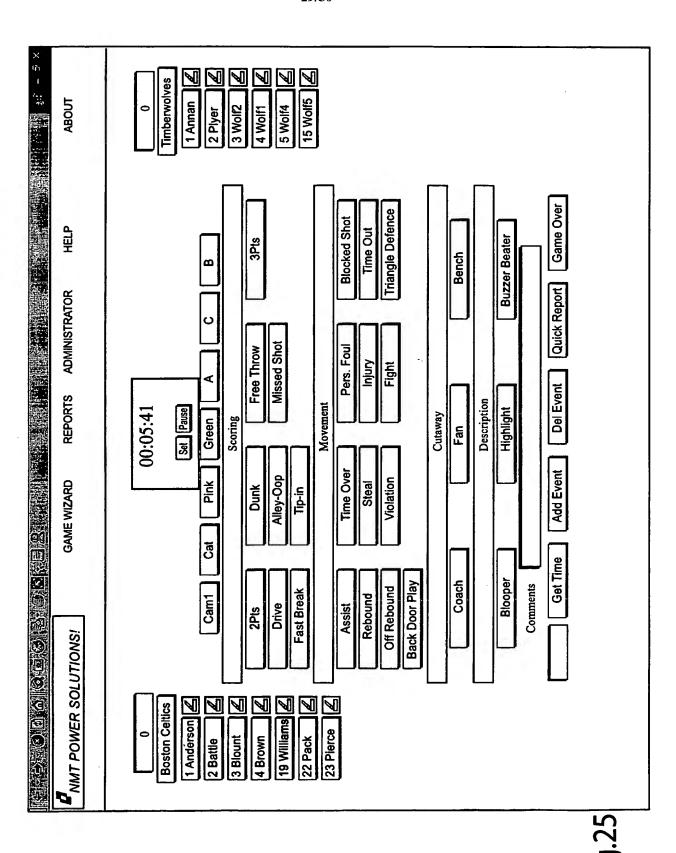


] NM   Logner - Microsoft Internet Explorer					
CERTAINS OF DISTRICT SECTION OF PROMISE CHANGE   DISTRICT OF STATES   DISTRICT OF STATES	avoines (G) Haroy (B) 2 (C)				
GAME WIZARD REPORTS ADMINISTRATOR	GAME WIZARD	REPORTS	ADMINISTRATOR	HELP	ABOUT
	Garme Migard	M	rand		
<b>ふ</b>	Select Date of Game	ztec	x gan	3	
	Date of Game: 12-03-2000  Home Team A  Boston Celitics	Iway Timben	Team wolves ▼		
		Next >>			
SEED			Southern Microsof Void	060)   1111/31	





SUBSTITUTE SHEET (RULE 26)



SUBSTITUTE SHEET (RULE 26)

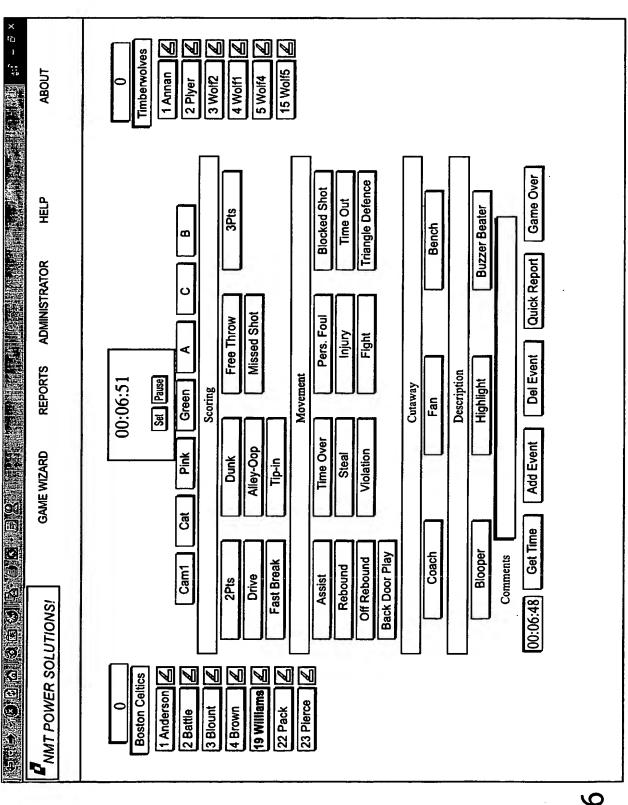


Fig.26

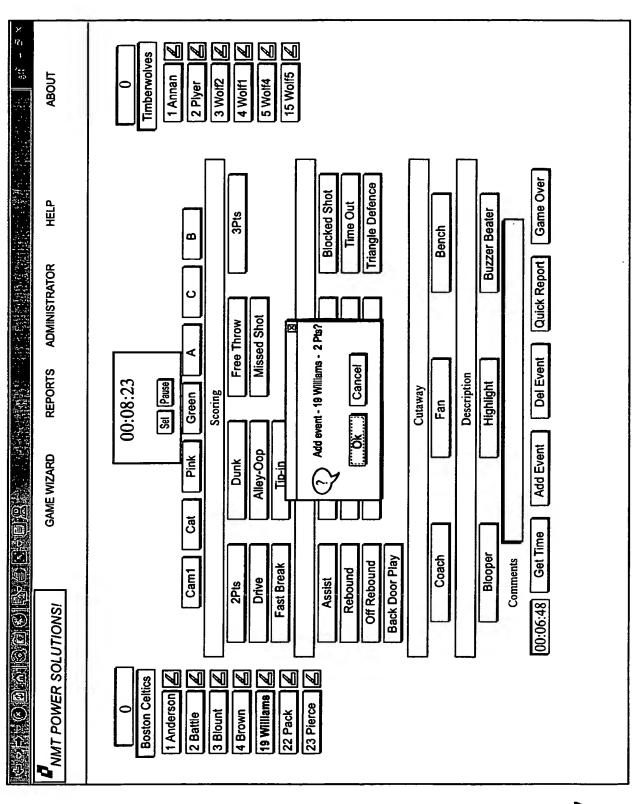


Fig.27

Quick Report	Comments cam1 cat Pink Green A C B	0 0 0 0	Pierce Rebound 0 0 0 0 0 0 0	Blooper, 0 0 0 0 0 0	ode 0 0 0 0 0 0 0	BC back door play 0 0 0 0 0 0 0	Bench, The Bench, The Bench!!!! 0 0 0 4 0 0 0	Fan 0 0 0 0 0	Bench 0 0 0 0 0 0	Coach 0 0 0 0 0 0	0 0 0 0 0	Coach 0 0 0 0 0	Haghiight, 0 2 3 4 0 0	
8	Tunberwolves													
	V.Events						Bench							
	H.PTS V.PTS	0	0	0	0	0	0	0	0	0	0	0	0	
	H.PTS	0	0				0	0	0	0	0	0	2	
	H Events	Violation	Rebound						Bench		Coach		2 Pts	
	Boston Celtics	Kenny Anderson	Paul Pierce	Paul Pierce	Paul Pierce				00:03:18 John Williams		Robert Pack		00:06:48 John Williams	
	Time	00:00:00	00:00:00	00:00:00	00:00:00	00:05:00	00:02:30	00:02:41	00:03:18	00:03:31	00:03:52	00:04:05	0.06:48	

Fig.28

ŀ,

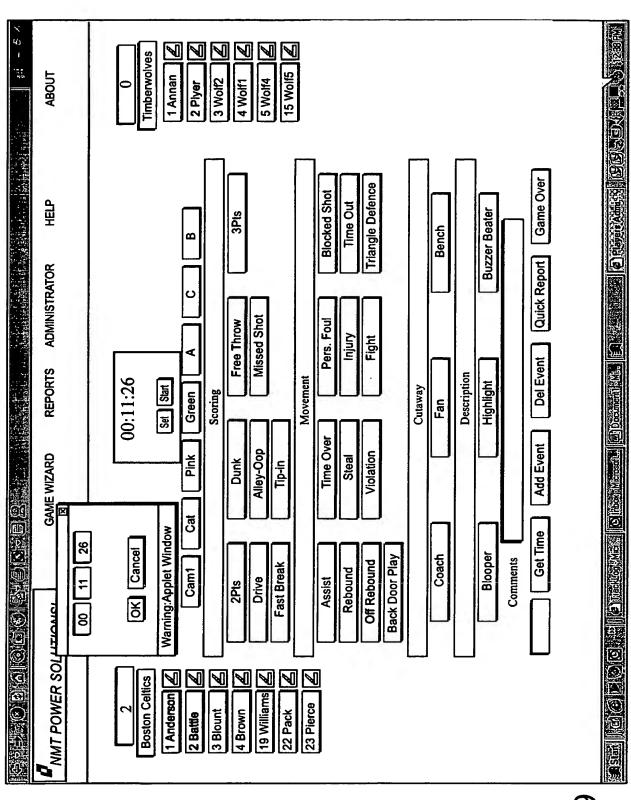
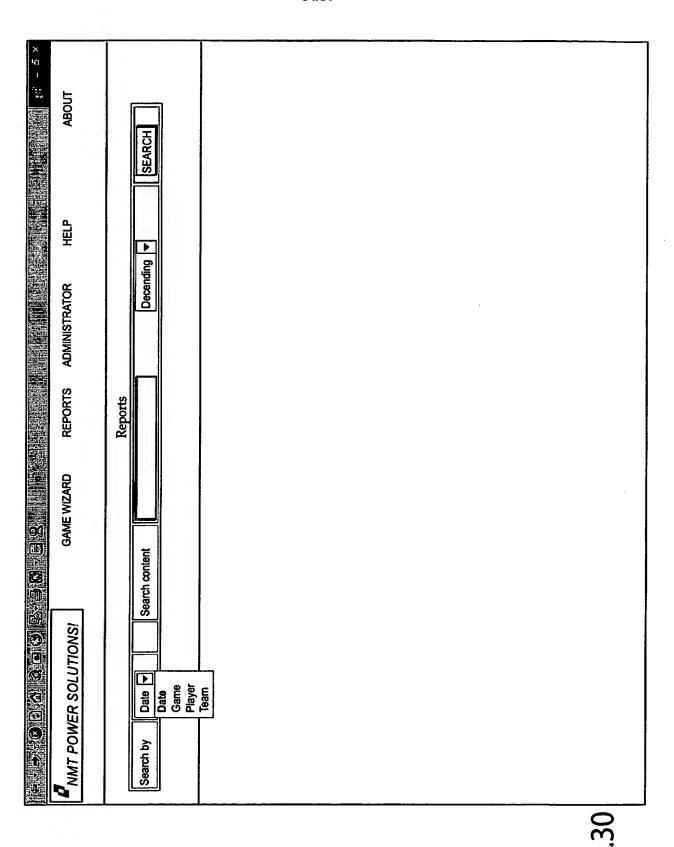


Fig.29





X 62 - 1:18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ABOUT		Search	1																				
	ADMINISTRATOR HELP		Ascending 🔻		TEAM	New York Knicks	Mani Heat	Mami Heat	Denver Nuggets	New York Knicks	Chicago Bulls	New York Knicks	New York Knicks	Mami Heat	Denver Nuggets	Marni Heat	Denver Nuggets	New York Knicks	Mami Heat	Miami Heat	New Jersey Nets	Denver Nuggets	New Jersey Nets	Miami Heat
	GAME WIZARD REPORTS ADI	Reports		Players List																				
			Player ▼ Search content		PLAYER	Allan Houston	Alonzo Mourning	Blue Edwards	Calbert Cheaney	Charlie Ward	Chris Carr	Chris Childs	Chris Dudley	Clarence Weatherspoon	Cory Alexander	<u>Dan Majerle</u>	Dan McClintock	David Wingate	Duane Causwell	Eric Williams	Evan Eschmeyer	George McCloud	Gheorghe Muresan	Jamal Mashburn
	WMT POWER SOLUTIONS!		Search by Pig																					

Fig.31

NMT POWER SOLUTIONS!		GAME WIZARD F	REPORTS	<b>ADMINISTRATOR</b>	HELP ABOUT
			Reports		
Player▼	Search content			Ascending •	Search
		Gan	Games List		
		Player : Allan Houston	lan Hou	ston	
Game Date	TEAM	Time	EVENT		COMMENTS
12-02-2002	New York Knicks			missed st	missed shottriangle offense
12-02-2002	New York Knicks	00:05:29	Turn Over		Turn Over 1213233
11-06-2000	New York Knicks	Н	3 Pts		
11-06-2000	New York Knicks	00:35:18	Drive		
10-26-2000	New York Knicks		2 Pts		
10-26-2000	New York Knicks	13:04:40	Time Out	4.	
10-26-2000	New York Knicks	13:08:39	Free Throw	*	
10-26-2000	New York Knicks	13:08:50	Free Throw	M.	
01-14-2000	New York Knicks	00:00:10	Turn Over		

Fig.32

ogsosos, corcor

NMT POWER SOLUTIONS	MAT POWER SOLUTIONS!  GAME WIZARD REPORTS ADMINISTRATOR HELP	D REPORTS	ADMINISTRATOR	HELP ABOUT	5
		Reports			
Search by Player ▼	Search content		Ascending	Search	
		Games List			
	Team	Team :New York Knicks	nicks		
	Game Date		CAME	AR.	
	12-02-2002		1222002	002	
	11-14-2000		<u>13</u>	3	
	11-06-2000		11062000	3000	
	11-06-2000		11256650	9650	
	<u>10-26-2000</u>		23	3	
	10-25-2000		21		
	<u>10-25-2000</u>		22	0.1	
	04-06-2000		254550056	9500	
,	01-14-2000		01142000	2000	

Fig.33

					•	P	© CT/	() Tus	ි 00/:	324			
			Ť								F		
3-points shot! @#\$##@%	back-door, back door 123544879	000000, alley	missed shot triangle offense	Coach, coach cheering as well	r පිපපිපපිප පි	We Assist, We Assist, WA	Turn Over 1213233	Blooper, Personal Faculli	when Shot is Blocked! @@@	Bench, Buzzer Beater Ewing Steals	A CANADA	ATHEORY OF THE WAY WATER THE STATE OF THE ST	
				Fast Break	Trp-in	Assist	Turn Over	Pers. Foul	Blocked Shot	Steal	Ĭ	MANAGERAL EDICAL	
00:02:46	00:03:17	00:03:40	00:04:10	00:04:28	00:04:43	00:02:00	00:05:29	00:05:43	00:06:02	00:09:51	1		
w York Knicks	Soston Celtics	w York Knicks		一	w York Knicks		w York Rnicks	Soston Celtics	w York Knicks	w York Knicks		Ale statistical	

X 9. ₹ ABOUT Search Highlight, Dunk!!! 1234567890
Buzzer Beater, Buzzer Beater!@#\$%^&\*\*() Fan, New York Fans are Cheering! Fan, The fans cheer for their team. HELP COMMENTS • Ascending **ADMINISTRATOR** REPORTS Reports Games List Free Throw EVENT Fan Fan GAME WIZARD 00:00:51 00:00:18 00:02:24 Time Search content New York Knicks New York Knicks Boston Celtics Boston Celtics TEAM पुर्वेद्धः वि htp://fluid:8100/backetbal/ptiframe.htm NMT POWER SOLUTIONS! New 3 SPURTS - Microsoft Internet Explorer Player 12-02-2002 12-02-2002 2-02-2002 12-02-2002 12-02-2002 Game Date 2-02-2002 12-02-2002 12-02-2002 12-02-2002 12-02-2002 12-02-2002 12-02-2002 12-02-2002 12-02-2002 Search by 1222002 1222002 1222002 1222002 1222002 1222002 1222002 1222002 1222002 1222002 222002 CAME 1222002



comen accer

Player	X (0)				_	1							_			<del></del>				Þ
Search content									<u> </u>					6						
Search content   Reports   Report	FEE.	5							ျ	0	9									دالا
Search content     Reports   Reports   Administrator   Help		ಹ್ಞ							M	0	[5]	٥	0	0	0	0		0	5	
Search content   Reports   ADMINISTRATOR   HELP     Search content   Reports   ADMINISTRATOR   HELP     Search content   Reports   Reports   Ascending   Search content   Reports   Ascending   Search content   Reports   Ascending   Search content   Search   Searc		₹		<del>L</del>					Green	0	4	0	0	0	0	0	0	0	4	c
Search content   Reports   ADMINISTRATOR   HELP     Search content   Reports   ADMINISTRATOR   HELP     Search content   Reports   Reports   Ascending   Search content   Reports   Ascending   Search content   Reports   Ascending   Search content   Report   Ascending   Search content   Report   Ascending   Search content   Search content   Search content   Search content   Search   Search content   Search   Searc	4			Š					# Pink	<u> </u>	$\sqsubseteq$	<u> </u>								
Search content   Reports   Report   Remedia   Remedia									_ <u>s</u>	0	2	0	0	0		0	0	0	2	ئ
Came wizard   Reports   Administrator   Reports   Ascending   As		o.,							caml	0		0	0	٥	0	0	0	0	0	
Search content   Came   Pack   Chris   Came   Chris   Came   Chris							-2002		COMMENTS	The fans cheer for their team	lew York Fans are Cheering!!!	plight,Dunk!!! 1234567890	eater Buzzer Beater   @#8%^&*()	-points shot!@#\$##@%	-door, back door 123544879	1000, alley	ottriangle offense	th, coach cheering as welli	දියදියදියදිය	TIF. A mint TIF. A mint TIFA
Search content Time V_PTS A 00:00:18 0 00:00:24 2 00:02:46 2 00:03:17 2 00:04:28 2 00:04:38 4			Reports			Log Report	Game :12-02	me#:1222002	New York Knicks	Fan,	Fan, N		Buzzer B		back.			Coac	Marcus Camby	ш
Search 10:00:02:24 00:02:46 00:03:47 00:04:28 00:04:28 00:04:43		GAME WIZARI					Date of	ES C	A_EVENTS		Fan	Dunk							Tip-in	
Search 10:00:02:24 00:02:46 00:03:47 00:04:28 00:04:28 00:04:43	0			content	,				V_PTS	0	0	2	2		2			2	4	~
Boston H_EVENTS H_PTS Celtics Fan 0 ony Battle Free Throw 1 Mark Blount   1 Randy Fast Break 3 Brown   3 Fob. 6	District Control	-		Search						00:00:18	00:00:51	00:01:50	00:02:24	00:02:46	00:03:17	00:03:40	00:04:10	00:04:28	00:04:43	าก.กร.กถ
Boston H_EVENTS Celtics Fan  Wark Blount Bown Fast Break Brown Tob.		TIONS							H_PTS				-	1		-	-	3	3	[,
Boston Celtics Mark Blount Brown Lob.	) <b>[a]</b> [a]	WER SOLU		Player▼					H_EVENTS	Fan			Free Throw					Fast Break		Annine
		D NMT PO		Search by					Boston Celtics				Tony Battle		Mark Blount			Randy Brown		John

Fig.35

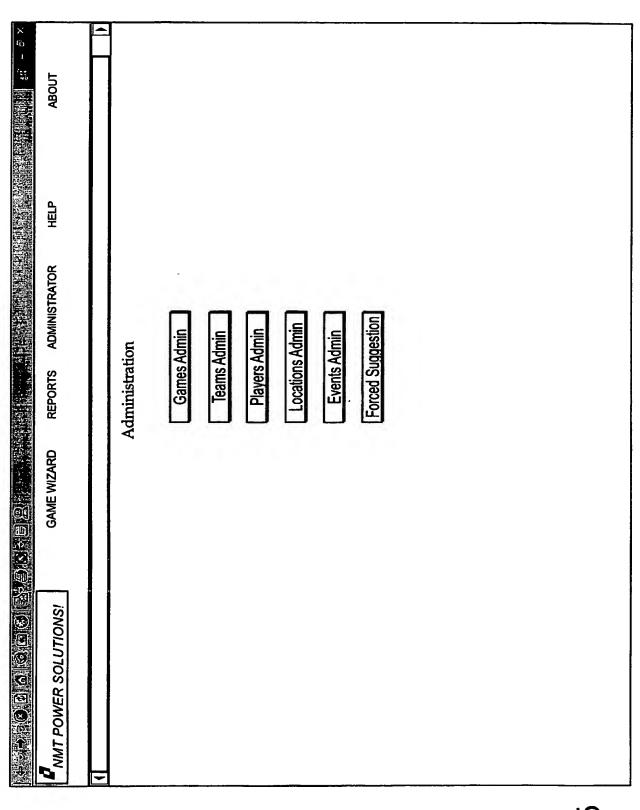


Fig.36

Administration  Administration  Administration  Administration  Administration  Administration  Administration  Games Admin  The Cames Admin	Start Hotel & Mark Commence House Market Mar
--	--

Fig.37

1

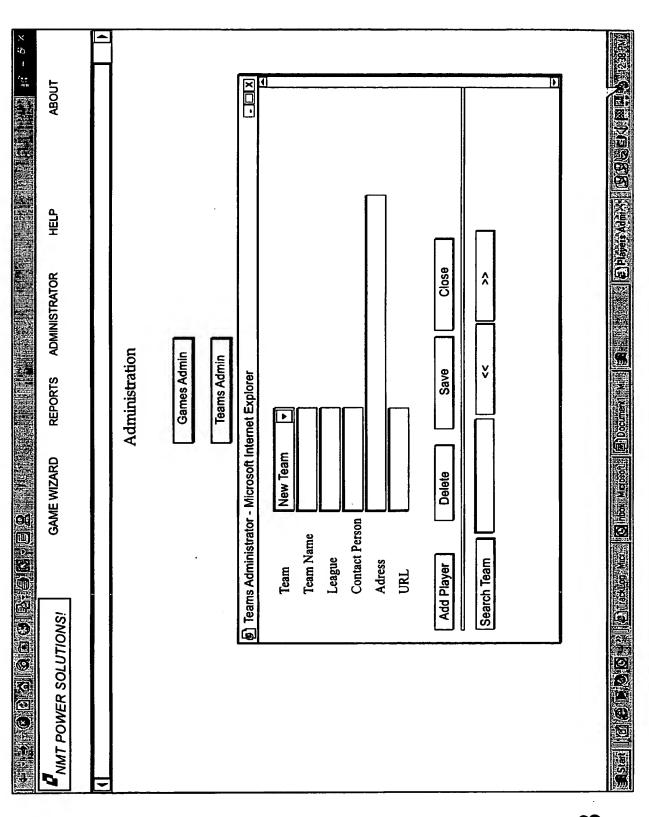


Fig.38

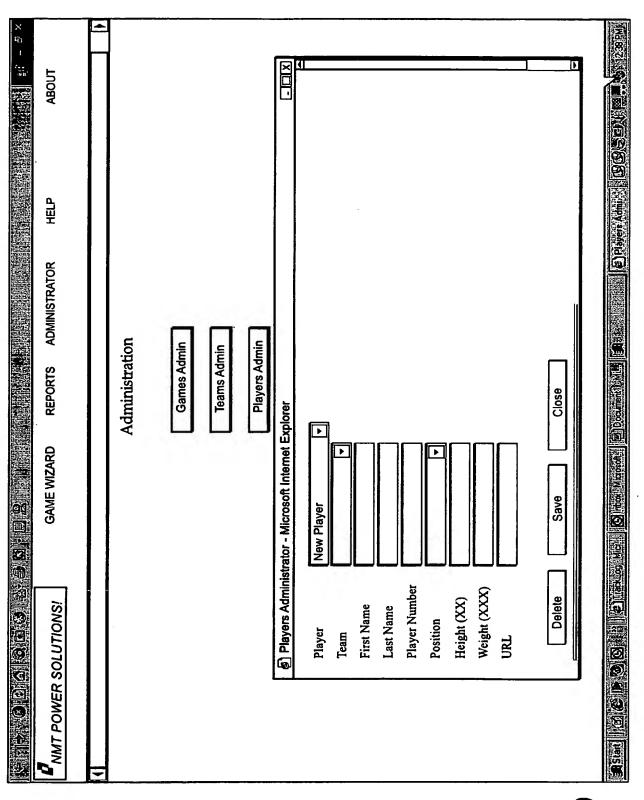
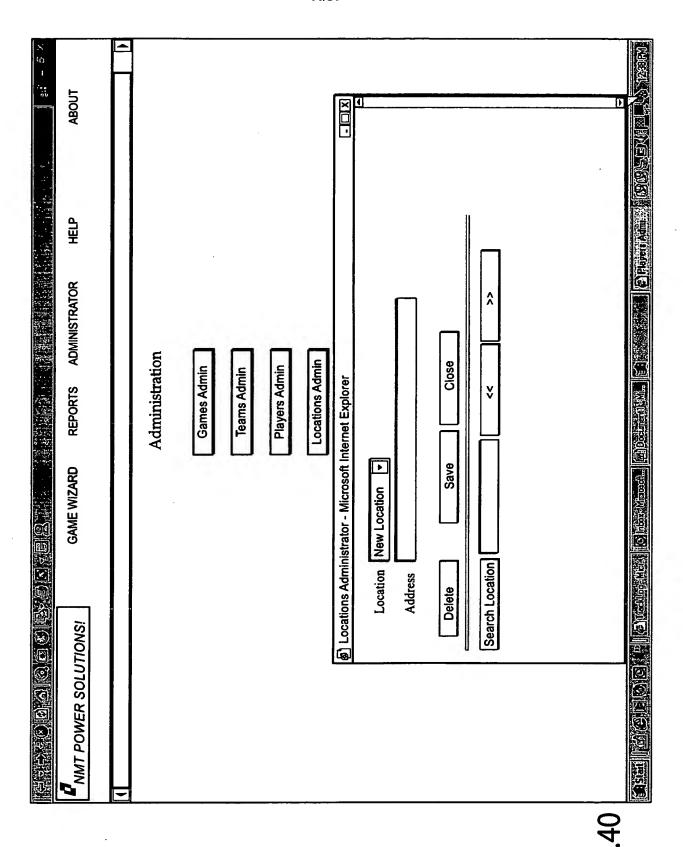
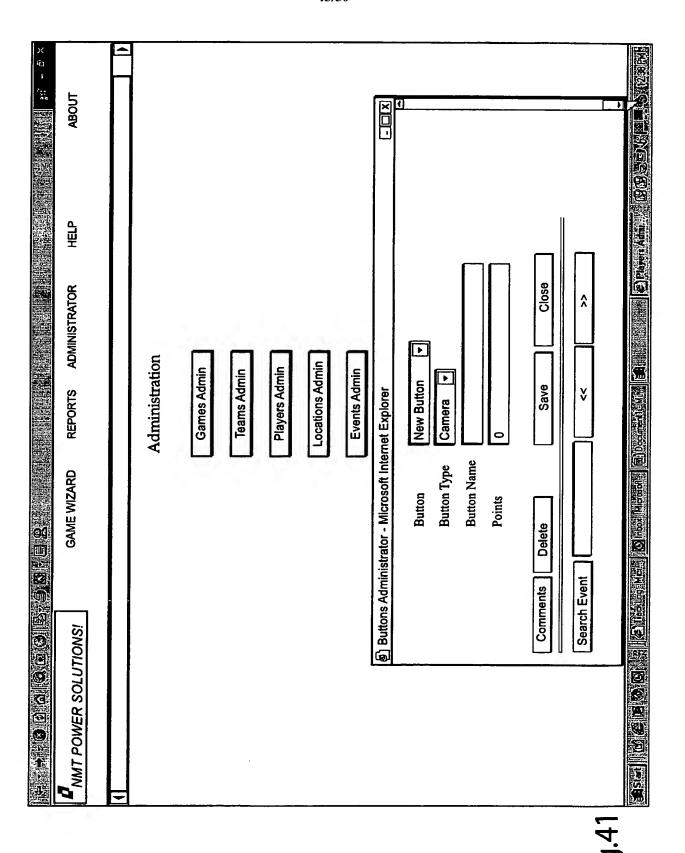


Fig.39





**SUBSTITUTE SHEET (RULE 26)** 

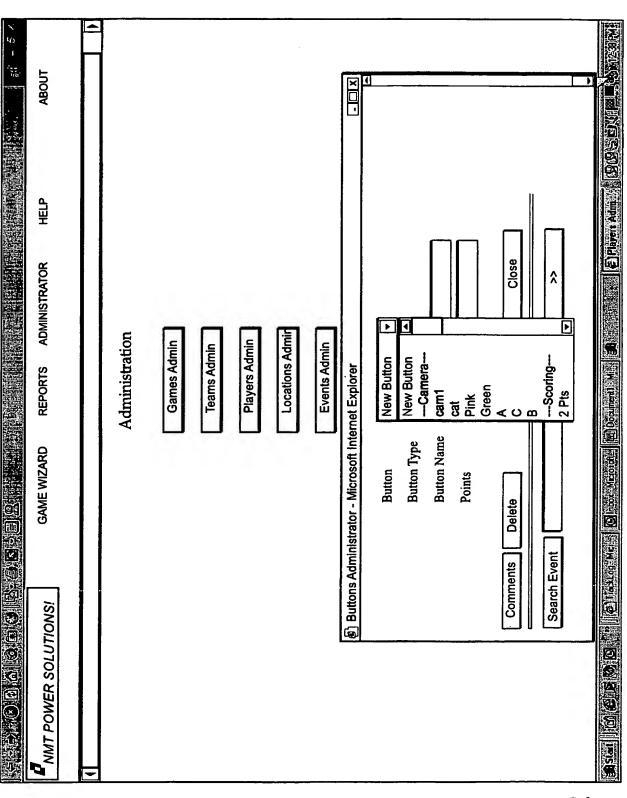
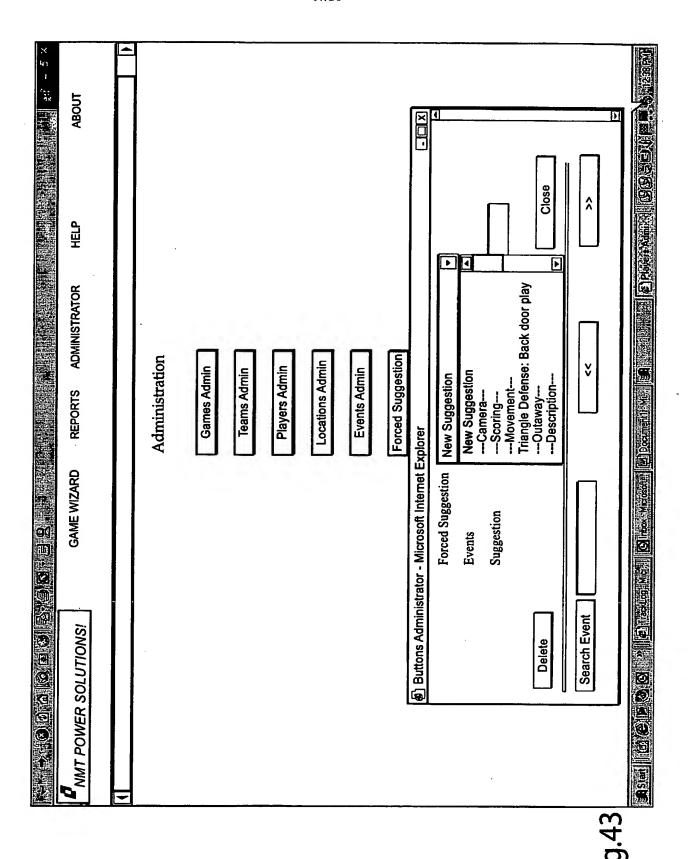


Fig.42



**SUBSTITUTE SHEET (RULE 26)** 

4

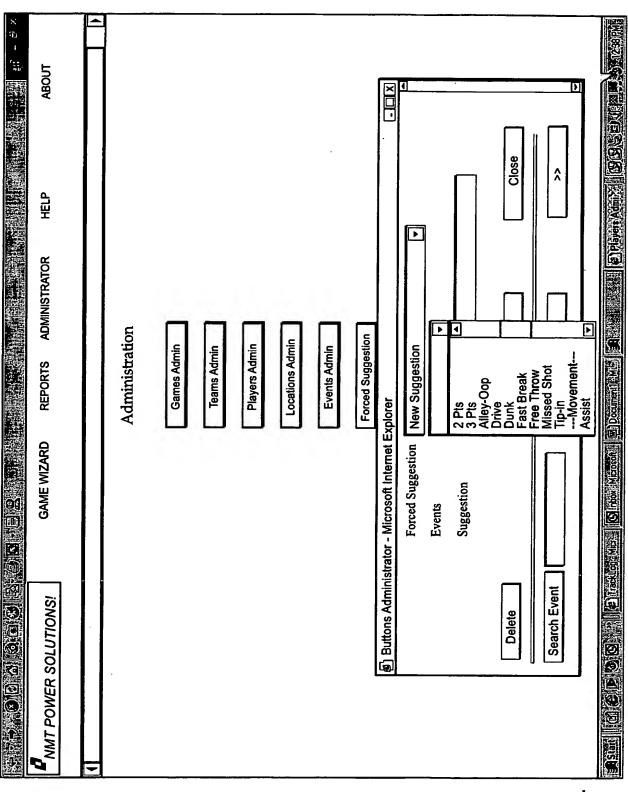


Fig.44



NEW JERSEY DEVILS vs. DALLAS STARS				× 5 + 5 Programme
INEW JERSEY DEVILS vs. DALLAS         TAKE THE ICE       FIGHT DEVELOPS         INGOAL 2       SHOT ON GOAL 3         IN GOAL 2       SHOT ON GOAL 6         IN GOAL 8       SAVE         ETS GO DEVILS*       FAN - BRODEUR'S WIFE         HECK 2       FAN - BRODEUR'S WIFE         AWAY       DALLAS STARS         Rece OFF       SHOT ON GOAL 2         SHOT ON GOAL 2       SHOT ON GOAL 2         SHOT ON GOAL 3       SHOT ON GOAL 3         FF NIEUWENDER.       SHOT ON GOAL 3         SHOT ON GOAL 3       SHOT ON GOAL 3         SHOT ON GOAL 3       SHOT ON GOAL 3         STOT ON GOAL 3       SHOT ON GOAL 3         STOT ON GOAL 3       STOT ON GOAL 3         STOT ON GOAL 3       STOT ON GOAL 3		REPORTS		ABOUT
TAKE THE ICE FIGHT DEVELOPS  N GOAL BEOT ON GOAL 3  N GOAL BEOT ON GOAL 3  N GOAL BEOT ON GOAL BEOT BEATTON	NE	W JERSEY DEVILS vs. DA	LLAS STARS	
Ceam:         NEW JERSEY DEVILS           TAKE THE ICE         FIGHT DEVELOPS           N GOAL 2         SHOT ON GOAL 3           N GOAL 2         SHOT ON GOAL 6           N GOAL 8         SAVE           ETS GO DEVILS*         FAN - BRODEUR'S WIFE           ETS GO DEVILS*         FAN - BRODEUR'S WIFE SCARED           AWAY         FAN - BRODEUR'S WIFE SCARED           NWAY         FAN - BRODEUR'S WIFE SCARED           NGOAL OFFEN DEF         FACE OFF           N GOAL OFFEN DEF         SHOT ON GOAL 2           SHOT ON GOAL 2         SHOT ON GOAL 3           STOT ON GOAL 3         STOT ON GOAL 3				
TAKE THE ICE  IN GOAL  IN GOAL 2  SHOT ON GOAL 3  SHOT ON GOAL 6  SHOT ON GOAL 6  SHOT ON GOAL 6  SHOT ON GOAL 6  SAVE  ETS GO DEVILS'  FAN - BRODEUR'S WIFE  FAN - BRODEUR'S WIFE  THECK 2  FAN - BRODEUR'S WIFE  THECK 2  THECK 2  THECK 3  THECK 3  THECK 4  THECK 4  THECK 5  THECK 5  THECK 5  THECK 5  THECK 5  THECK 6	Home Team:	NEW JERSEY DEVI	rs	
N GOAL S SHOT ON GOAL 3 SHOT ON GOAL 3 SHOT ON GOAL 6 SAVE EECK 2 ET'S GO DEVILS" FAN - BRODEUR'S WIFE EAN - BRODEUR'S WIFE EAN - BRODEUR'S WIFE EAN - BRODEUR'S WIFE EAN - BRODEUR'S WIFE FAN - BRODE	DEVILS TAKE THE ICE	FIGHT DEVELOPS	HARD CHECK & PUNCH	
N GOAL 2 SHOT ON GOAL 3 SHOT ON GOAL 6 SAVE BECK 2 EAN - BRODEUR'S WIFE ET'S GO DEVILS! FAN - BRODEUR'S WIFE SCARED AWAY  Team: DALLAS STARS FACE OFF SHOT ON GOAL 2 SHOT ON GOAL 2 SHOT ON GOAL 3 SHOT ON GOAL 3 STOT O	SHOT ON GOAL	HARD CHECK	FACE OFF & BREAKAWAY	<u> </u>
N GOAL S SAVE SAVE ETS GO DEVILS  N GOAL B EAN - BRODEUR'S WIFE FAN - BR	SHOT ON GOAL 2	SHOT ON GOAL 3	SHOT ON GOAL 4	<u> </u>
N GOAL B SAVE HECK 2 FAN - BRODEUR'S WIFE ET'S GO DEVILS" FAN - BRODEUR'S WIFE SCARED AWAY  Team: DALLAS STARS FACE OFF SHOT ON GOAL 2 SHOT ON GOAL 2 SHOT ON GOAL 3 STOT O	SHOT ON GOAL 5	SHOT ON GOAL 6	SHOT ON GOAL 7	]
HECK 2 EAN - BRODEUR'S WIFE  ET'S GO DEVIL.S"  FAN - BRODEUR'S WIFE SCARED  AWAY  Team: DALLAS STARS  FACE OFF  FACE OFF  SHOT ON GOAL 2  SHOT ON GOAL 3	SHOT ON GOAL 8	SAVE	SAVE 2	
ET'S GO DEVILS"  FAN - BRODEUR'S WIFE SCARED  AWAY  Team:  DALLAS STARS  FACE OFF  FACE OFF  SHOT ON GOAL 2  SHOT ON GOAL 2  SHOT ON GOAL 3	HARD CHECK 2	FAN - BRODEUR'S WIFE	FAN	
Team:  DALLAS STARS  FACE OFF  N GOAL: OFFEN, DEF. SHOT ON GOAL 2  SHOT ON GOAL 3  SHOT ON GOAL 3  SHOT ON GOAL 3  SHOT ON GOAL 3  STOT ON GOAL 3	FAN - TET'S GO DEVILS"	FAN - BRODEUR'S WIFE SCAR		
Team:  DALLAS STARS  FACE OFF  N GOAL: OFFEN, DEF. SHOT ON GOAL 3  SHOT ON GOAL 3  SHOT ON GOAL 3  STOT ON GOAL 3	i I			
Team:  DALLAS STARS  FACE OFF  N GOAL: OFFEN.DEF. SHOT ON GOAL 2  SHOT ON GOAL 3  STOT ON GOAL 3				
N GOAL: OFFEN.DEF. SHOT ON GOAL 2 SHOT ON GOAL 3 FF NIEUWENDYK WINS SCORED GOAL & CELEBRATION	Visiting Team:	DALLAS STARS		
ON GOAL: OFFEN DEF SHOT ON GOAL 2 SHOT ON GOAL 3 OFF NIEUWENDYK WINS SCORED GOAL & CELEBRATION	BENCH	FACE OFF	FACE OFF 2	
SHOT ON GOAL 3 OFF NIEUWENDYK WINS SCORED GOAL & CELEBRATION	ON GOAL	SHOT ON GOAL 2	GOALIE VIEW	
WENDYK WINS SCORED GOAL & CELEBRATION	SAVE	SHOT ON GOAL 3	SHOT ON GOAL 4	
	FACE OFF NIEUWENDYK WINS	SCORED GOAL & CELEBRATION		



